

FORM 1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
NIH211.001C1APPLICATION NO.
10/646,628INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Moss et al.FILING DATE
August 22, 2003GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
RZ	1.	5,849,304	12/15/1998	Moss et al.	—	—	
RZ	2.	5,185,146	02/09/1993	Altenburger	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
RZ	3.	WO 01/47955 A2	07/05/2001	PCT	—	—		

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
RZ	4.	Allen, T.M. et al., 2000 "Induction of AIDS virus-specific CTL activity in fresh, unstimulated peripheral blood lymphocytes from rhesus macaques vaccinated with a DNA prime/modified vaccinia virus Ankara boost regimen" <i>J. Immunol.</i> 164:4968-4978.
RZ	5.	Amara, R.R. et al., 2001 "Control of a Mucosal Challenge and Prevention of AIDS by a Multiprotein DNA/MVA Vaccine" <i>Science</i> 292: 69-74.
RZ	6.	Barouch, D.H. et al., 2000 "Control of viremia and prevention of clinical AIDS in rhesus monkeys by cytokine-augmented DNA vaccination" <i>Science</i> 290:486-492.
RZ	7.	Egan, M.A. et al., 2000 "Simian immunodeficiency virus (SIV) gag DNA-vaccinated rhesus monkeys develop secondary cytotoxic T-lymphocyte responses and control viral replication after pathogenic SIV infection" <i>J. Virol.</i> 74:7485-7495.
RZ	8.	Gomez, C.E et al., 2001 "Recombinant proteins produced by vaccinia virus vectors can be incorporated within the virion (IMV form) into different compartments" <i>Arch Virol.</i> 146(5):875-892.
RZ	9.	Gorelick, R.J. et al., 1999 "Nucleocapsid protein zinc-finger mutants of Simian Immunodeficiency Virus strain Mne produce virions that are replication defective <i>in vitro</i> and <i>in vivo</i> " <i>Virology</i> 253:259-270.
RZ	10.	Goulder, P.J. et al., 1999 "Anti-HIV cellular immunity: recent advances towards vaccine design" <i>AIDS (Suppl. A)</i> 13:S121-S136.
RZ	11.	Hirsch, V.M. et al., 1995 "Limited virus replication following SIV challenge of macaques immunized with attenuated MVA vaccinia expressing SIVsm env and gag-pol" <i>Vaccines</i> 95:195-200.
RZ	12.	Hofmann-Lehmann, R. et al., 2000 "Sensitive and robust one-tube real-time reverse transcriptase-polymerase chain reaction to quantify SIV-RNA load: comparison of one- versus two-enzyme systems" <i>AIDS Res. Hum. Retroviruses</i> 16:1247-1257.

EXAMINER	<i>Robert Z...</i>	DATE CONSIDERED	9/13/05
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. NIH211.001C1	APPLICATION NO. 10/646,628
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Moss et al.	
		FILING DATE August 22, 2003	GROUP 1645

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
RZ	13. Karacostas, V. et al., 1989 "Human immunodeficiency virus-like particles produced by a vaccinia virus expression vector" <i>PNAS USA</i> 86:8964-8967.
RZ	14. Karlsson, G.B. et al., 1997 "Characterization of molecularly cloned simian-human immunodeficiency viruses causing rapid CD4 ⁺ lymphocyte depletion in rhesus monkeys" <i>J. Virol.</i> 71:4218-4225.
RZ	15. Lechner, F. et al., 2000 "Analysis of successful immune responses in persons infected with hepatitis C virus" <i>J. Exp. Med.</i> 191:1499-1512.
RZ	16. Mellors, J.W. et al., 1996 "Prognosis in HIV-1 infection predicted by the quantity of virus in plasma" <i>Science</i> 272:1167-1170.
RZ	17. Montefiori, D.C. et al., 1998 "Neutralizing antibodies in sera from macaques infected with chimeric Simian-Human Immunodeficiency Virus containing the envelope glycoproteins of either a laboratory-adapted variant or a primary isolate of Human Immunodeficiency Virus type 1" <i>J. Virol.</i> 72:3427-3431.
RZ	18. Montefiori, D.C. et al., 1988 "Evaluation of antiviral drugs and neutralizing antibodies to Human Immunodeficiency Virus by a rapid and sensitive microtiter infection assay" <i>J. Clin. Microbiol.</i> 26:231-235.
RZ	19. Moss, B. et al., 2000 "Retroviruses of human AIDS and related animal diseases" in: Colloque des Cent Gardes, 12th, Paris, France, Oct. 25-27, 1999, Meeting Date 1999, 105-107, Eds. M. Girard & B. Dodet, Editions Scientifiques et Medicales Elsevier, Paris, Fr. (Abstract).
RZ	20. Ourmanov I. et al., 2000 "Recombinant modified vaccinia virus Ankara expressing the surface gp120 of simian immunodeficiency virus (SIV) primes for a rapid neutralizing antibody response to SIV infection in macaques" <i>J Virol.</i> 74:2960-2965.
RZ	21. Ourmanov, I. et al., 2000 "Comparative efficacy of recombinant modified vaccinia virus Ankara expressing Simian Immunodeficiency Virus (SIV) Gag-Pol and/or Env in macaques challenged with pathogenic SIV" <i>J. Virol.</i> 74:2740-2751.
RZ	22. Power, C.A et al., 1999 "A valid ELISPOT assay for enumeration of <i>ex vivo</i> , antigen-specific, IFN γ -producing T cells" <i>J. Immunol. Methods</i> 227:99-107.
RZ	23. Quinn, T.C. et al., 2000 "Viral load and heterosexual transmission of Human Immunodeficiency Virus type 1" <i>N. Engl. J. Med.</i> 342:921-929.
RZ	24. Robinson, H.L. et al., 2000 "AIDS Vaccines: heterologous prime/boost strategies for raising protective T cell responses" <i>AIDS Rev.</i> 2:105-110.
RZ	25. Robinson, H.L. et al., 1999 "Neutralizing antibody-independent containment of immunodeficiency virus challenges by DNA priming and recombinant pox virus booster immunizations" <i>Nature Med.</i> 5:526-534.
RZ	26. Sauter, M.M. et al., 1996 "An internalization signal in the Simian Immunodeficiency Virus transmembrane protein cytoplasmic domain modulates expression of envelope glycoproteins on the cell surface" <i>J. Cell Biol.</i> 132:795-811.

EXAMINER	<i>Robert Zimm</i>	DATE CONSIDERED	9/13/05
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RZ	27.	Staprans, S. et al., 1996 "Quantitative methods to monitor viral load in Simian Immunodeficiency Virus infections" in: <u>Viral Genome Methods</u> , K. Adolph, Ed. (CRC Press, Boca Raton, FL, 1996), pp. 167-184.
RZ	28.	Waldrop, S.L. et al., 1997 "Determination of antigen-specific memory/effector CD4 ⁺ T cell frequencies by flow cytometry: evidence for a novel, antigen-specific homeostatic mechanism in HIV-associated immunodeficiency" <i>J. Clin. Invest.</i> 99:1739-1750.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/646,628
Filing Date	August 22, 2003
First Named Inventor	Moss, Bernard
Art Unit	1645
Examiner	Robert A. Zeman
Attorney Docket No.	NIH211.001C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
rk	1	WO 91/07425	05/30/1991	Oncogen Limited Partnership		
rk	2	WO 01/92470 A2	12/06/2001	Emory University		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
rk	3	Supplementary Partial European Search Report for co-pending European Application Serial No. 02 72 1259.	
rk	4	EARL, P.L. et al. "Comparison of vaccine strategies using recombinant env-gag-pol MVA with or without an oligomeric env protein boost in the SHIV rhesus macaque model" <i>Virology</i> (2002) 294:270-281.	
rk	5	GIRARD, M. et al. "New prospects for the development of a vaccine against human immunodeficiency virus type 1. An overview" <i>C.R. Acad. Sci. Paris, Sciences de la Vie/Life Sciences</i> (1999) 322:959-966.	
rk	6	MEN, R. et al. "Immunization of rhesus monkeys with a recombinant of modified vaccinia virus Ankara expressing a truncated envelope glycoprotein of dengue type 2 virus induced resistance to dengue type 2 virus challenge" <i>Vaccine</i> (2000) 18:3113-3122.	

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Examiner Signature

Robert A. Zeman

Date Considered

7/13/05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) MAY 23 2005 (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12804-027001	Application No. 10/646,628
	Applicant Bernard Moss et al.		
	Filing Date August 22, 2003	Group Art Unit 1645	

U.S. Patent Documents

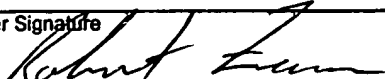
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RZ	AA	5,795,577	8/18/1998	Kieny et al.	424	208.1	
	AB						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
RZ	AC	WO 99/63098	12/9/1999	WIPO				
RZ	AD	WO 89/12095	12/14/1989	WIPO				
RZ	AE	EP 0 538 496	8/26/1991	EPO				

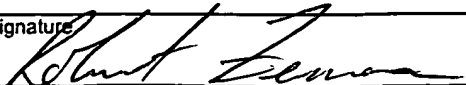
Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
RZ	AF	Belyakov et al., "Induction of a Mucosal Cytotoxic T-Lymphocyte Response by..." J. of Virology 72(1):8264-8272, 1998.
RZ	AG	Davison et al., "Structure of Vaccinia Virus Early Promoters" J. Mol. Biol. 210:749-769, 1989.
RZ	AH	Hanke et al., "Enhancement of MHC class I-restricted peptide-specific T cell induction..." Vaccine 16(5):439-445, 1998.
RZ	AI	Hanke et al., "Lack of toxicity and persistence in the mouse associated with administration of candidate..." Vaccine 21:108-114, 2002.
RZ	AJ	Hanke et al., "Development of a DNA-MVA/HIVA vaccine for Kenya" Vaccine 20:1995-1998, 2002.
RZ	AK	Hanke et al., "Pre-clinical development of a mutli-CTL epitope-based DNA prime MVA boost vaccine for AIDS" Immunology Letters 66:177-181, 1999.
RZ	AL	Hanke et al., "Effective induction of HIV-specific CTL by multi-epitope using gene gun..." Vaccine 17:589-596, 1999.
RZ	AM	Hanke et al., "Immunogenicities of intravenous and intramuscular administrations of modified vaccinia..." J. of General Virology 79:83-90, 1998.
RZ	AN	Haffar et al., "The Carboxy Terminus of Human Immunodeficiency Virus Type I gp160..." J. of Virology 64(6):3100-3103, 1990.
RZ	AO	Masternak et al., "cis- and trans-Acting Elements Involved in Reactivation of Vaccinia Virus Early Transcription" J. of Virology 70(12):8737-8746, 1996.
RZ	AP	Wee et al., "A DNA/MVA-based candidate human immunodeficiency virus vaccine for Kenya induces..." J. of General Virology 83:75-80, 2002.
RZ	AQ	Wyatt et al., "Development of a replication-deficient recombinant vaccinia virus vaccine effective against..." Vaccine 14(15):1451-1458, 1996.
RZ	AR	Wyatt et al., "Priming and boosting immunity to respiratory syncytial virus by recombinant replication-defective..." Vaccine 18:392-397, 2000.

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RZ	AA	5,169,763	12/1992	Kieny et al.	—	—	
RZ	AB	5,256,767	10/1993	Salk and Carlo	—	—	
RZ	AC	5,445,953	08/1995	Dorner et al.	—	—	
RZ	AD	5,494,807	02/1996	Paoletti et al.	—	—	
RZ	AE	5,589,466	12/1996	Felgner et al.	—	—	
RZ	AF	5,593,972	01/1997 03/1999	Weiner et al.	—	—	
RZ	AG	5,614,404	03/1997	Mazzara et al.	—	—	
RZ	AH	5,676,950	10/1997	Small et al.	—	—	
RZ	AI	5,736,368	04/1998	Mazzara et al.	435	320.1	
RZ	AJ	5,741,492	04/1998	Hurwitz and Owens	—	—	
RZ	AK	5,747,324	05/1998	Mazzara et al.	—	—	
RZ	AL	5,747,338	05/1998	Giese and Escobedo	—	—	
RZ	AM	5,756,103	05/1998	Paoletti et al.	424	160.1	
RZ	AN	5,766,599	06/1998	Paoletti et al.	435	5	
RZ	AO	5,817,637	10/1998	Weiner et al.	435	456	
RZ	AP	5,846,946	12/1998	Huebner et al.	514	44	
RZ	AQ	5,853,725	12/1998	Salk and Carlo	424	208.1	
RZ	AR	5,858,775	1/1999	Johnson, Phillip R.	435	320.1	
RZ	AS	5,863,542	01/1999	Paoletti et al.	—	—	
RZ	AT	5,879,925	03/1999	Rovinski et al.	—	—	
RZ	AU	5,911,989	6/1999	Kattinger et al.	424	160.1	
RZ	AV	5,928,930	07/1999	Salk and Carlo	—	—	
RZ	AW	5,985,641	11/1999	Haynes et al.	—	—	
RZ	AX	6,051,410	04/2000	Mazzara et al.	—	—	
RZ	AY	6,077,662	6/2000	Compans et al.	435	5	
RZ	AZ	6,080,408	06/2000	Rovinski et al.	—	—	

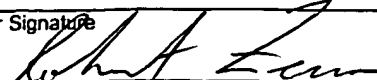
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U.S. Patent Documents							
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RT	AAA	6,086,891	07/2000	Hurwitz and Coleclough	—	—	
RT	ABB	6,099,847	08/2000	Tobin and Gonda	—	—	
RT	ACC	6,103,244	08/2000	Dorner et al.	—	—	
RT	ADD	6,121,021	09/2000	Rovinski et al.	—	—	
RT	AEE	6,140,114	10/2000	Klatzmann and Salzmann	—	—	
RT	AFF	6,156,952	12/2000	Bryant et al.	800	11	
RT	AGG	6,171,596	01/2001	Earl et al.	—	—	
RT	AHH	6,201,663	04/2001	Earl Yamaguchi et al.	—	—	
RT	AII	6,204,250	03/2001	Bot and Bona	—	—	
RT	AJJ	6,214,804	04/2001	Felgner et al.	—	—	
RT	AKK	6,265,183	07/2001	Dorner et al.	—	—	
RT	ALL	6,291,157	09/2001	Rovinski et al.	—	—	
RT	AMM	6,306,625	10/2001	Jacobs et al.	—	—	
RT	ANN	6,448,083	9/2002	Larocca et al.	435	456	
RT	AOO	6,554,527	4/2003	Rovinski et al.	424	208.1	

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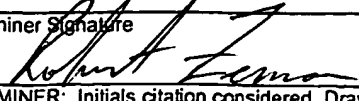
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
RT	APP	WO 97/27311	7/1997	WIPO				
RT	AQQ	WO 98/56919	12/1998	PCT International				
RT	ARR	WO 00/00216	01/2000	PCT International				
RT	ASS	WO 01/02607	01/2001	PCT International				
RT	ATT	WO 01/52886	07/2001	PCT International				
RT	AUU	WO 01/82962	11/2001	PCT International				
RT	AVV	WO 02/072754	9/2002	WIPO				

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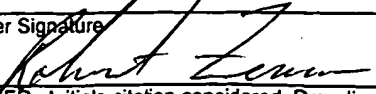
Foreign Patent Documents or Published Foreign Patent Applications								
Exami ner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
RT	AWW	WO 03/004657	1/2003	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Exami ner Initial	Desig. ID	Document
RT	AXX	Amara <i>et al.</i> , "Different Patterns of Immune Responses but Similar Control of a Simian-Human Immunodeficiency Virus 89.6P Mucosal Challenge by Modified Vaccinia Virus Ankara (MVA) and DNA/MVA Vaccines," <i>J. Virology</i> 76:7625-7631 (2002)
RT	AYY	Andre <i>et al.</i> , "Increased immune response elicited by DNA vaccination with a synthetic gp120 sequence with optimized codon usage," <i>J. Virol.</i> , 72: 1497-1503, 1998.
RT	AZZ	Antoine <i>et al.</i> , "The Complete Genomic Sequence of the Modified Vaccinia Ankara Strain: Comparison with Other Orthopoxviruses", <i>Virology</i> , 244: 365-96, 1998.
RT	AAAA	Asakura <i>et al.</i> , "Induction of HIV-1 specific mucosal immune responses by DNA vaccination," <i>Scand. J. Immunol.</i> , 46: 326-330, 1997.
RT	ABBB	Bachmann and Zinkernagel, "Neutralizing antiviral B cell responses," in <i>Ann. Rev. Immunol.</i> , 15: 235-270, 1997.
RT	ACCC	Barouch <i>et al.</i> , "Reduction of Simian-human immunodeficiency virus 89.6P viremia in rhesus monkeys by recombinant modified vaccinia virus Ankara vaccination," <i>J. Virol.</i> , 75: 5151-5158, 2001.
RT	ADDD	Barouch <i>et al.</i> , "Augmentation of immune responses to HIV-1 and simian immunodeficiency virus DNA vaccines by IL-2/IG plasmid administration in rhesus monkeys", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 97:4192-7, April 11, 2000.
RT	AEEE	Barry <i>et al.</i> , "Protection against mycoplasma infection using expression-library immunization," <i>Nature</i> , 377: 632-635, 1995.
RT	AFFF	Berger, "HIV Entry and Tropism: the chemokine receptor connection," <i>AIDS</i> , 11(Suppl. A): S3-16, 1997.
RT	AGGG	Benson <i>et al.</i> , <i>J. Virol.</i> , "Recombinant vaccine-induced protection against the highly pathogenic simian immunodeficiency virus SIV(mac251): dependence on route of challenge exposure," 72: 4170-4182, 1998.
RT	AHHH	Blanchard <i>et al.</i> , "Modified vaccinia virus Ankara undergoes limited replication in human cells and lacks several immunomodulatory proteins: implications for use as a human vaccine," <i>J. Gen. Virol.</i> , 79: 1159-1167, 1998.
RT	AIII	Bohm <i>et al.</i> , "DNA vector constructs that prime hepatitis B surface antigen-specific cytotoxic T lymphocyte and antibody responses in mice after intramuscular injection," <i>J. Immuno. Methods</i> , 193: 29-40, 1996.
RT	AJJJ	Bohm <i>et al.</i> , "Routes of plasmid DNA vaccination that prime murine humoral and cellular immune responses," <i>Vaccine</i> , 16: 949-54, 1998.
RT	AKKK	Bolivar <i>et al.</i> , "Construction and Characterization of New Cloning Vehicles: (II. A Multipurpose Cloning System)," <i>Gene</i> , 2: 95-113, 1977.

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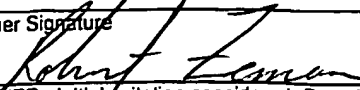
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		Filing Date August 22, 2003	Group Art Unit 1645

Exami ner Initial	Desig. ID	Document
RZ	ALLL	Boyer <i>et al.</i> , "Protection of chimpanzees from high-dose heterologous HIV-1 challenge by DNA vaccination," <i>Nature Med.</i> , 3: 526-532, 1997.
RZ	AMMM	Boyle <i>et al.</i> , "Influence of cellular location of expressed antigen on the efficacy of DNA vaccination: cytotoxic T lymphocyte and antibody responses are suboptimal when antigen is cytoplasmic after intramuscular DNA immunization," <i>Int. Immunol.</i> , 9: 1897-1906, 1997.
RZ	ANNN	Boyle <i>et al.</i> , "Enhanced responses to a DNA vaccine encoding a fusion antigen that is directed to sites of immune induction," <i>Nature</i> , 392: 408-411, 1998.
RZ	A000	Burton and Montefiori, "The antibody response in HIV-1 infection," <i>AIDS</i> , 11(Suppl A):S87-98, 1997.
RZ	APPP	Burton <i>et al.</i> , "Why do we not have an HIV vaccine and how can we make one?" <i>Nature Med.</i> 4:495-498, 1998.
RZ	AQQQ	Calarota <i>et al.</i> , "Cellular cytotoxic response induced by DNA vaccination in HIV-1-infected patients," <i>Lancet</i> , 351: 1320-1325, 1998.
RZ	ARRR	Cardoso <i>et al.</i> , "Immunization with Plasmid DNA Encoding for the Measles Virus Hemagglutinin and Nucleoprotein Leads to Humoral and Cell-Mediated Immunity," <i>Virology</i> , 225: 293-299, 1998.
RZ	ASSS	Carroll and Moss, "Host Range and Cytopathogenicity of the Highly Attenuated MVA Strain of Vaccinia Virus: Propagation and Generation of Recombinant Viruses in a Nonhuman Mammalian Cell Line", <i>Virology</i> , 238:198-211, 1997.
RZ	ATTT	Chapman <i>et al.</i> , "Effect of intron A from human cytomegalovirus (Towne) immediate-early gene on heterologous expression in mammalian cells," <i>Nucl. Acids Res.</i> , 19: 3979-3986, 1991.
RZ	AUUU	Chen <i>et al.</i> , "Protective Immunity Induced by Oral Immunization with a Rotavirus DNA Vaccine Encapsulated in Microparticles," <i>J. Virol.</i> , 72: 5757-5761, 1998.
RZ	AVVV	Chun <i>et al.</i> , "Early establishment of a pool of latently infected, resting CD4+ T cells during primary HIV-1 infection," <i>Proc. Natl. Acad. Sci. USA</i> , 95: 8869-8873, 1998.
RZ	AWWW	Collman <i>et al.</i> , "An Infection Molecular Clone of an Unusual Microphage-Tropic and Highly Cytopathic Strain of Human Immunodeficiency Virus Type 1," <i>J. Virol.</i> , 66: 7517-7521, 1992.
RZ	AXXX	Condon <i>et al.</i> , "DNA-based immunization by in vivo transfection of dendritic cells," <i>Nat Med.</i> , 2:1122-1128, 1996.
RZ	AYYY	Corr <i>et al.</i> , "Gene Vaccination with Naked Plasmid DNA: Mechanism of CTL Priming," <i>J. Exp. Med.</i> , 184: 1555-1560, 1996.
RZ	AZZZ	Dempsey <i>et al.</i> , C3d of Complement as a Molecular Adjuvant: Bridging Innate and Acquired Immunity," <i>Science</i> , 271: 348-350, 1996.
RZ	AAAAA	Durbin <i>et al.</i> , "Comparison of the immunogenicity and efficacy of a replication-defective vaccinia virus expressing antigens of human parainfluenza virus type 3 (HPIV3) with those of a live attenuated HPIV3 vaccine candidate in rhesus monkeys passively immunized with PIV3 antibodies," <i>J. Infect. Dis.</i> , 179: 1345-1351, 1999.
RZ	ABBBB	Durbin <i>et al.</i> , "The immunogenicity and efficacy of intranasally or parenterally administered replication-deficient vaccinia-parainfluenza virus type 3 recombinants in rhesus monkeys", <i>Vaccine</i> , 16: 1324-30, 1998.
RZ	ACCCC	Endo <i>et al.</i> , "Short- and Long-term Clinical Outcomes in Rhesus Monkeys Inoculated with a Highly Pathogenic Chimeric Simian/Human Immunodeficiency Virus", <i>J. Virol.</i> , 74:6935-45, 2000.

Examiner Signature 	Date Considered 9/13/05
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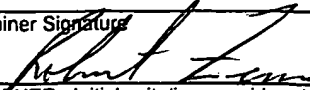
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Examiner Initial	Desig. ID	Document
RZ	ADDDD	Esparza and Bhamarapravati, "Accelerating the development and future availability of JIV-1 vaccines: why, when, where, and how?", Lancet, 355: 2061-6, 2000.
RZ	AEEEE	Evans DT <i>et al.</i> , "Virus-specific T-lymphocyte responses select for amino-acid variation in simian immunodeficiency virus Env and Nef," Nat. Med., 5: 1270-1276, 1999.
RZ	AFFFF	Feltquate <i>et al.</i> , "Different T Helper Cell Types and Antibody Isotypes Generated by Saline and Gene Gun DNA Immunization," J. Immunol. 158: 2278-2284, 1997.
RZ	AGGGG	Feinberg <i>et al.</i> , "AIDS vaccine models" Challenging challenge viruses" Nature Med. 8(3):207-210, 2002.
RZ	AHHHH	Finzi <i>et al.</i> , "Latent infection of CD4 T cells provides a mechanism for lifelong persistence of HIV-1, even in patients on effective combination therapy", Nat. Med. 5: 1270-6, 1996.
RZ	AIIII	Fomsgaard <i>et al.</i> , "Improved Humoral and Cellular Immune Responses Against the gp120 V3 Loop of HIV-1 Following Genetic Immunization with a Chimeric DNA Vaccine Encoding the V3 Inserted into the Hepatitis B Surface Antigen," Scand. J. Immunol., 47: 289-295, 1998.
RZ	AJJJJ	Fu <i>et al.</i> , "Priming of Cytotoxic T Lymphocytes by DNA Vaccines: Requirement for Professional Antigen Presenting Cells and Evidence for Antigen Transfer from Myocytes," Mol. Med., 3: 362-371, 1997.
RZ	AKKKK	Furci <i>et al.</i> , "Antigen-driven C-C Chemokine-mediated HIV-1 Suppression by CD4 T Cells from Exposed Uninfected Individuals Expressing the Wild-type CCR-5 Allele", J. Exp. Med., 186:455-60, 1997.
RZ	ALLLL	Fynan <i>et al.</i> , "DNA vaccines: Protective immunizations by parenteral, mucosal, and gene-gun inoculations," Proc. Natl. Acad. Sci. USA, 90: 11478-11482, 1993.
RZ	AMMMM	Hakim <i>et al.</i> , "A Nine-Amino Acid Peptide from IL-1 β Augments Antitumor Immune Responses Induced by Protein and DNA Vaccines," J. Immunol., 157: 5503-5511, 1996.
RZ	ANNNN	Hanke <i>et al.</i> , "DNA multi-CTL epitope vaccines for HIV and <i>Plasmodium faciparum</i> : immunogenicity in mice," Vaccine, 16: 426-435, 1998b.
RZ	AOOOO	Hartikka <i>et al.</i> , "An Improved Plasmid DNA Expression Vector for Direct Injection into Skeletal Muscle," Hum. Gen. Therapy, 7: 1205-1217, 1996.
RZ	APPPP	Hirsch <i>et al.</i> , "Prolonged Clinical Latency and Survival of Macaques Given a Whole Inactivated Simian Immunodeficiency Virus Vaccine", J. Infect. Dis., 170:51-9, 1994.
RZ	AQQQQ	Huang <i>et al.</i> , "Human Immunodeficiency Virus Type 1-Specific Immunity..." J. of Virology 75:4947-4951, 2001.
RZ	ARRRR	Inchauspe <i>et al.</i> , "Plasmid DNA Expressing a Secreted or a Nonsecreted Form of Hepatitis C Virus Nucleocapsid: Comparative Studies of Antibody and T-Helper Responses Following Genetic Immunization," DNA Cell Biol., 16: 185-195, 1997.
RZ	ASSSS	Iwasaki <i>et al.</i> , "Enhanced CTL responses mediated by plasmid DNA immunogens encoding costimulatory molecules and cytokines," J. Immunol., 158: 4591-4601, 1997a.
RZ	ATTTT	Iwasaki <i>et al.</i> , "The dominant role of bone-marrow derived cells in CTL induction following plasmid DNA immunization at different sites," J. Immunol., 159: 11-14, 1997b.
RZ	AUUUU	Jacobsen <i>et al.</i> , "Characterization of Human Immunodeficiency Virus Type 1 Mutants with Decreased Sensitivity to Proteinase Inhibitor Ro 31-8959," J. Virology 206:527-537 (1995).
RZ	AVVVV	Jin <i>et al.</i> , "Dramatic Rise in Plasma Viremia after CD8 T Cell Depletion in Simian Immunodeficiency Virus-infected Macaques", J. Exp. Med., 189: 991-8, 1999.

Examiner Signature 	Date Considered 9/13/05
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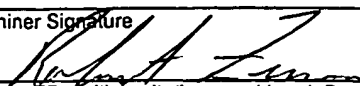
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RZ	AWWWW	Jones <i>et al.</i> , "Poly (DL-lactide-co-glycolide)-encapsulated plasmid DNA elicits systemic and mucosal antibody responses to encoded protein after oral administration," Vaccine, 15: 814-817, 1997.
RZ	AXXXX	Kawabata <i>et al.</i> , "The Fate of Plasmid DNA After Intravenous Injection in Mice: Involvement of Scavenger Receptors in Its Hepatic Uptake," Pharm. Res., 12: 825-830, 1995.
RZ	AYYYY	Kent <i>et al.</i> , "Enhanced T-Cell Immunogenicity and Protective Efficacy of a Human Immunodeficiency Virus Type 1 Vaccine Regimen Consisting of Consecutive Priming with DNA and Recombinant Fowlpox Virus," J. Virol., 72: 10180-10188, 1998.
RZ	AZZZZ	Kern <i>et al.</i> , "Target structures of the CD8(+)-T-cell response to human cytomegalovirus: the 72-kilodalton major immediate-early protein revisited," J. Virol., 73: 8179-8184, 1999.
RZ	AAAAAA	Knapp <i>et al.</i> , "A high frequency of Mamu-A*01 in the rhesus macaque detected by polymerase chain reaction with sequence-specific primers and direct sequencing," Tissue Antigens, 50: 657-661, 1997.
RZ	ABBBBB	Kong <i>et al.</i> , "Immunogenicity of Multiple Gene and Clade Human Immunodeficiency..." J. of Virology 77(23):12764-12772, 2003.
RZ	ACCCCC	Korber <i>et al.</i> , "Epidemiological and Immunological Implications of the Global Variability of HIV" <u>Retroviral Immunology</u> , B. Walker, D. Pantaleo, Eds (The Humana Press, Totowa, NH, In press)
RZ	ADDDDD	Kuroda <i>et al.</i> , "Analysis of Gag-specific Cytotoxic T Lymphocytes in Simian Immunodeficiency Virus-infected Rhesus Monkeys by Cell Staining with a Tetrameric Major Histocompatibility Complex Class I-Peptide Complex," J. Exp. Med., 187: 1373-1381, 1998.
RZ	AEEEEEE	Lau <i>et al.</i> , "Cytotoxic T-cell memory without antigen", Nature, 369: 648-52, 1994.
RZ	AFFFFFF	Letvin <i>et al.</i> , "Cytotoxic T lymphocytes specific for the simian immunodeficiency virus", Immunol. Rev., 170: 127-34, 1999.
RZ	AGGGGG	Letvin, N.L. "Progress in the development of an HIV-1 vaccine" Science 280:1875-1880, 1998.
RZ	AHHHHH	Letvin <i>et al.</i> , "Potent, protective anti-HIV immune responses generated by bimodal HIV envelope DNA plus protein vaccination," Proc. Natl. Acad. Sci. USA, 94: 9378-9383, 1997.
RZ	AIIIII	Levy <i>et al.</i> , "Controlling HIV pathogenesis: the role of the noncytotoxic anti-HIV response of CD8 T cells", Immunol. Today, 17: 217-24, 1996.
RZ	AJJJJJ	Lew <i>et al.</i> , "Cancer Gene Therapy Using Plasmid DNA: Pharmacokinetic Study of DNA Following Injection in Mice," Hum. Gene Ther., 6: 553, 1995.
RZ	AKKKKK	Lewis, <i>et al.</i> , "Limited Protection from a Pathogenic Chimeric Simian-Human Immunodeficiency Virus Challenge following Immunization with Attenuated Simian Immunodeficiency Virus", J. Virol., 73: 1262-70, 1999.
RZ	ALLLLL	Li <i>et al.</i> , "Infection of Cynomolgus Monkeys with a Chimeric HIV-2/SIV _{mac} Virus That Expresses the HIV-1 Envelope Glycoproteins," J. of AIDS, 5: 639-646, 1992.
RZ	AMMMMM	Lifson <i>et al.</i> , "The Extent of Early Viral Replication Is a Critical Determinant of the Natural History of Simian Immunodeficiency Virus Infection", J. Virol., 71: 9508-14, 1997.
RZ	ANNNNN	Livingston <i>et al.</i> , "The Induction of Mucosal Immunity in the Female Genital Tract Using Gene-Gun Technology (Part 1: Antigen Expression)," Ann. New York Acad. Sci., 772: 265-267, 1995.
RZ	AOOOOO	Lu <i>et al.</i> , "SIV DNA vaccine trial in macaques: post-challenge necropsy in vaccine and control groups," Vaccine 15: 920-923, 1997.

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RZ	APPPPP	Maecker <i>et al.</i> , "DNA vaccination with cytokine fusion constructs biases the immune response to ovalbumin," <i>Vaccine</i> , 15: 1687-1696, 1997.
RZ	AQQQQQ	Maecker <i>et al.</i> , "Cytotoxic T Cell Responses to DNA Vaccination: Dependence on Antigen Presentation via Class II MHC", <i>J. Immunol.</i> , 161: 6532-6536, 1998.
RZ	ARRRRR	Mahnel <i>et al.</i> , "[Experiences with immunization against orthopox viruses of humans and animals using vaccine strain MVA]," <i>Berl. Munch Tierarztl Wochenschr.</i> , 107: 253-256, 1994. [ENGLISH TRANSLATION OF ABSTRACT ATTACHED] <i>No translation attached</i>
RZ	ASSSSS	Manthorpe <i>et al.</i> , "Gene Therapy by Intramuscular Injection of Plasmid DNA: Studies on Firefly Luciferase Gene Expression in Mice," <i>Hum. Gene Therapy</i> , 4: 419-431, 1993.
RZ	ATTTTT	Markmeyer <i>et al.</i> , "The pAX plasmids: new gene-fusion vectors for sequencing, mutagenesis and expression of proteins in E.coli," <i>Gene</i> 93:129-134 (1990).
RZ	AUUUUU	Mayr <i>et al.</i> , "[The smallpox vaccination strain MVA: marker, genetic structure, experience gained with the parenteral vaccination and behavior in organisms with a debilitated defence mechanism (author's transl)]," <i>Zentralbl. Bakteriell.</i> , 167: 375-390, 1978. [ENGLISH TRANSLATION OF ABSTRACT ATTACHED] <i>only Abstract considered</i>
RZ	AVVVVV	McCluskie <i>et al.</i> , "Direct Gene Transfer to the Respiratory Tract of Mice with Pure Plasmid and Lipid-Formulated DNA", <i>Antisense Nucleic Acid Drug Dev.</i> , 8: 401-414, 1998.
RZ	WWWWW	Megede <i>et al.</i> , "Increased Expression and Immunogenicity of Sequence-Modified..." <i>J. of Virology</i> 74(6):2628-2635, 2000.
RZ	AXXXXX	Meyer <i>et al.</i> , "Mapping of deletions in the genome of highly attenuated vaccinia virus MVA and their influence on virulence," <i>J. Gen. Virology</i> 72:1031-1038 (1991).
RZ	AYYYYY	Mizuno <i>et al.</i> , "Mutational analysis of two zinc-finger motifs in HIV type 1 nucleocapsid proteins: effects on proteolytic processing of Gag precursors and particle formation," <i>Aides Research and Human Retroviruses</i> 12(9): 793-800 (1996).
RZ	AZZZZZ	Montgomery <i>et al.</i> , "Heterologous and Homologous Protection Against Influenza A by DNA Vaccination: Optimization of DNA Vectors," <i>DNA Cell Biol.</i> , 12: 777-783, 1993.
RZ	AAAAAA	Moore <i>et al.</i> , "HIV-1 neutralization: the consequences of viral adaptation to growth on transformed T cells," <i>AIDS</i> , 9(Suppl. A):S117-136, 1995.
RZ	ABBBBB	Murali-Krishna <i>et al.</i> , "Counting Antigen-Specific CD8 T Cells: A Reevaluation of Bystander Activation during Viral Infection," <i>Immunity</i> , 8:177-187, 1998.
RZ	ACCCCC	Murali-Krishna <i>et al.</i> , "Persistence of Memory CD8T Cells in MHC Class I-Deficient Mice", <i>Science</i> , 286:1377-81, 1999.
RZ	ADDDDD	Pal <i>et al.</i> , "Inhibition of HIV-1 Infection by the β -Chemokine MDC", <i>Science</i> , 278: 695-8, 1997.
RZ	AEEEEEE	Persson <i>et al.</i> , "Modifications of HIV-1 Retrovirus-Like Particles to Enhance..." <i>Biologicals</i> 26:255-265, 1998.
RZ	AFFFFFF	Pertmer and Robinson, "Studies on Antibody Responses Following Neonatal Immunization with Influenza Hemagglutinin DNA or Protein," <i>Virology</i> , 257:406-414, (1999).
RZ	AGGGGG	Pertmer <i>et al.</i> , "Influenza Virus Nucleoprotein-Specific Immunoglobulin G Subclass and Cytokine Responses Elicited by DNA Vaccination Are Dependent on the Route of Vector DNA Delivery," <i>J. Virol.</i> , 70: 6119-6125, 1996.

Examiner Signature 	Date Considered 9/13/05
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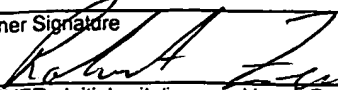
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RZ	HHHHHH	Pertmer <i>et al.</i> , "Gene gun-based nucleic acid immunization: elicitation of humoral and cytotoxic T lymphocyte responses following epidermal delivery of nanogram quantities of DNA," Vaccine, 13: 1427-1430, 1995.
RZ	AIIIIII	Poignard <i>et al.</i> , "Neutralizing Antibodies Have Limited Effects on the Control of Established HIV-1 Infection In Vivo," Immunity, 10: 431-438, 1999.
RZ	AJJJJJ	Porgador <i>et al.</i> , "Predominant Role for Directly Transfected Dendritic Cells in Antigen Presentation to CD8+ T Cells after Gene Gun Immunization," J. Exp. Med., 188: 1075-1082, 1998.
RZ	AKKKKK	Ramshaw and Ramsey, "The prime-boost strategy: exciting prospects for improved vaccination", Immunol. Today, 21: 163-5, 2000.
RZ	ALLLLL	Reimann <i>et al.</i> , "An <i>env</i> Gene Derived from a Primary Human Immunodeficiency Virus Type 1 Isolate Confers High In Vivo Replicative Capacity to a Chimeric Simian/Human Immunodeficiency Virus in Rhesus Monkeys," J. Virol., 70: 3198-3206, 1996.
RZ	MMMMMM	Reimann <i>et al.</i> , "A Chimeric Simian/Human Immunodeficiency Virus Expressing a Primary Patient Human Immunodeficiency Virus Type 1 Isolate <i>env</i> Causes an AIDS-Like Disease after In Vivo Passage in Rhesus Monkeys," J. Virol., 70: 6922-6928, 1996.
RZ	NNNNNN	Richmond <i>et al.</i> , "Studies of the Neutralizing Activity and Avidity of Anti-Human Immunodeficiency Virus Type 1 Env Antibody Elicited by DNA Priming and Protein Boosting," J. Virol., 72: 9092-9100, 1998.
RZ	AOOOOO	Robinson and Pertmer, "DNA Vaccines: Basic Studies and Applications," in <i>Adv. Virus Res.</i> , 55: 1-74, 2000.
RZ	APPPPP	Robinson and Pertmer, "Nucleic Acid Immunizations," in <i>Current Protocols in Immunology</i> , (R. Coico, Ed.), Vol. 1, pp. 2.14.1-2.14.19. 3 vols. John Wiley & Sons, Inc., New York.
RZ	AQQQQQ	Robinson <i>et al.</i> , "Protection against a lethal influenza virus challenge by immunization with a haemagglutinin-expressing plasmid DNA," Vaccine, 11: 957-960, 1993.
RZ	ARRRRR	Robinson <i>et al.</i> , "The Scientific Future of DNA for Immunization," American Academy of Microbiology, May 13-June 2, 1996, 1997.
RZ	ASSSSS	Rodriguez <i>et al.</i> , "DNA Immunization: Ubiquitination of a Viral Protein Enhances Cytotoxic T-Lymphocyte Induction and Antiviral Protection but Abrogates Antibody Induction," J. Virol., 71: 8497-8503, 1997.
RZ	ATTTTT	Ross <i>et al.</i> , "C3d enhancement of antibodies to hemagglutinin accelerates protection against influenza virus challenge," Nat. Immunology, 1:127-131, 2000.
RZ	AUUUUU	Ross <i>et al.</i> , "Enhanced Avidity Maturation of Antibody to Human Immunodeficiency Virus Envelope: DNA Vaccination with gp120-C3d Fusion Proteins," AIDS Res. Human Retro., 17(a):829-835, 2001.
RZ	AVVVVV	Rubbert <i>et al.</i> , "Multifactorial nature of non cytolytic CD8+ T cell-mediated suppression of HIV replication: beta-chemokine dependent and independent effects," AIDS Res. Hum. Retroviruses 13: 63-9, 1997.
RZ	WWWWWW	Sasaki <i>et al.</i> , "Comparison of Intranasal and Intramuscular Immunization against Human Immunodeficiency-Virus Type 1 with a DNA-Monophosphoryl Lipid A Adjuvant Vaccine," Infect. Immunol., 66: 823-826, 1998.
RZ	XXXXXX	Schmitz <i>et al.</i> , "Control of Viremia in Simian Immunodeficiency Virus Infection by CD8 Lymphocytes", Science, 283: 857-60, 1999.

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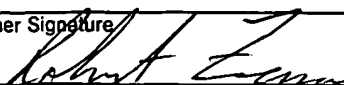
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RZ	YYYYYYY	Schneider <i>et al.</i> , "Induction of CD8 cells using heterologous prime-boost immunisation strategies", <i>Immunol. Rev.</i> , 170: 29-38, 1999.
RZ	AAAAAAA	Schneider <i>et al.</i> , "Enhanced immunogenicity for CD8+ T cell induction and complete protective efficacy of malaria DNA vaccination by boosting with modified vaccinia virus Ankara," <i>Nat. Med.</i> , 4: 397-402, 1998.
RZ	BBBBBBB	Scholtissek <i>et al.</i> , "A cloning cartridge of λ t_0 terminator," <i>Nucleic Acids Res.</i> , 15: 3185, 1987.
RZ	CCCCCCC	Sizemore <i>et al.</i> , "Attenuated <i>shigella</i> as a DNA Delivery Vehicle for DNA-Mediated Immunization," <i>Science</i> , 270: 299-302, 1995.
RZ	DDDDDDD	Sizemore <i>et al.</i> , "Attenuated bacteria as a DNA delivery vehicle for DNA-mediated immunization," <i>Vaccine</i> , 15: 804-807, 1997.
RZ	EEEEEEEE	Smith <i>et al.</i> , "Multiprotein HIV Type 1 Clade B DNA/MVA Vaccine:..." <i>AIDS Research and Human Retroviruses</i> 20(6):654-665, 2004.
RZ	FFFFFFF	Smith <i>et al.</i> , "Recombinant Vaccinia Viruses as New Live Vaccines," <i>Biotechnology & Genetic Engineering Reviews</i> 2:383-407 (1984).
RZ	GGGGGGG	Staprans <i>et al.</i> , "Simian Immunodeficiency Virus Disease Course Is Predicted by the Extent of Virus replication during Primary Infection", <i>J. Virol.</i> , 73:4829-39, 1999.
RZ	HHHHHHH	Stittelaar <i>et al.</i> , "Protective immunity in macaques vaccinated with a modified vaccinia virus Ankara-based measles virus vaccine in the presence of passively acquired antibodies," <i>J. Virol.</i> , 74: 4236-4243, 2000.
RZ	IIIIIII	Subbarao <i>et al.</i> , "Genetic variability of HIV-1," <i>AIDS</i> , 10(Suppl. A):S13-23, 1996.
RZ	JJJJJJJ	Sutcliffe, "Complete nucleotide sequence of the <i>Escherichia coli</i> plasmid pBR322," <i>Cold Spring Harbor Quant. Biol.</i> , 43: 77-90, 1979.
RZ	KKKKKKK	Sutter <i>et al.</i> , "Nonreplicating vaccinia vector efficiently expresses recombinant genes," <i>Proc. Natl. Acad. Sci. USA</i> , 89: 10847-10851, 1992.
RZ	LLLLLLL	Tang <i>et al.</i> , "Genetic immunization is a simple method for eliciting an immune response," <i>Nature</i> , 356: 152-154, 1992.
RZ	MMMMMMM	Thomson <i>et al.</i> , "Delivery of Multiple CD8 Cytotoxic T Cell Epitopes by DNA Vaccination," <i>J. Immunol.</i> , 160: 1717-1723, 1998.
RZ	NNNNNNN	Tobery <i>et al.</i> , "Targeting of HIV-1 Antigens for Rapid Intracellular Degradation Enhances Cytotoxic T Lymphocyte (CTL) Recognition and the Induction of De Novo CTL Responses In Vivo After Immunization," <i>J. Exp. Med.</i> , 185: 909-920, 1997.
RZ	OOOOOOO	Tomaras <i>et al.</i> , "CD8 T cell-mediated suppressive activity inhibits HIV-1 after virus entry with kinetics indicating effects on virus gene expression", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 97:3503-8, 2000.
RZ	PPPPPPP	Torres <i>et al.</i> , "DNA immunization: effect of secretion of DNA-expressed hemagglutinins on antibody responses," <i>Vaccine</i> , 18: 805-814, 2000.
RZ	QQQQQQQ	Torres <i>et al.</i> , "Differential Dependence on Target Site Tissue for Gene Gun and Intramuscular DNA Immunizations," <i>J. Immunol.</i> , 158: 4529-4532, 1997.
RZ	RRRRRRR	Uchijima <i>et al.</i> , "Optimization of Codon Usage of Plasmid DNA Vaccine Is Required for the Effective MHC Class I-Restricted T Cell Responses Against an Intracellular Bacterium," <i>J. Immunol.</i> , 161: 5594-5599, 1998.

Examiner Signature 	Date Considered 9/13/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12804-027001	Application No. 10/646,628
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Bernard Moss et al.	
		Filing Date August 22, 2003	Group Art Unit 1645

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RZ	RRRRRRR	Ulmer <i>et al.</i> , "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein," <i>Science</i> 259: 1745-1749, 1993.
RZ	ASSSSSS	Villinger <i>et al.</i> , "Induction of Long-Term Protective Effects against Heterologous Challenge in SIVhu-Infected Macaques", <i>Virology</i> , 278:194-206, 2000.
RZ	ATTTTTT	Wang <i>et al.</i> , "Mammalian cell/vaccinia virus expression vectors with increased stability of retroviral sequences in E.coli; production of feline immunodeficiency virus envelope protein," <i>Gene</i> 153:197-202 (1995).
RZ	UUUUUUU	Watson <i>et al.</i> , "Plasma Viremia in Macaques Infected with Simian Immunodeficiency Virus: Plasma Viral Load Early in Infection Predicts Survival", <i>J. Virol.</i> , 71: 284-90, 1997.
RZ	VVVVVVV	Wild <i>et al.</i> , "Polyvalent vaccination against hepatitis B surface and core antigen using a dicistronic expression plasmid," <i>Vaccine</i> , 16: 353-360, 1998.
RZ	WWWWWW	Wolff <i>et al.</i> "Direct Gene Transfer into Mouse Muscle in Vivo," <i>Science</i> , 247: 1465-1468, 1990.
RZ	XXXXXXX	Wu <i>et al.</i> , "Deoxyribonucleic Acid Vaccines Encoding Antigens With Rapid Proteasome-Dependent Degradation Are Highly Efficient Inducers of Cytolytic T Lymphocytes," <i>J. Immunol.</i> , 159: 6037-6043, 1997.
RZ	YYYYYYY	Wyand <i>et al.</i> , "Protection by live, attenuated simian immunodeficiency virus against heterologous challenge," <i>J. Virol.</i> , 73: 8356-8363, 1999.
RZ	ZZZZZZZ	Wyatt <i>et al.</i> , "Marker Rescue of the Host Range Restriction Defects of Modified Vaccinia Virus Ankara," <i>Virology</i> , 251:334-42, 1998.
RZ	AAAAAAA	Xiang <i>et al.</i> , "Manipulation of the Immune Response to a Plasmid-Encoded Viral Antigen by Coinoculation with Plasmids Expressing Cytokines," <i>Immunity</i> , 2: 129-135, 1995.
RZ	BBBBBBB	Yamamoto <i>et al.</i> , "Highly sensitive qualitative and quantitative detection of reverse transcriptase activity: optimization, validation, and comparative analysis with other detection systems," <i>J. Virol. Methods</i> , 61: 135-143, 1996.
RZ	CCCCCCC	Yang and Walker, "CD8+ cells in human immunodeficiency virus type I pathogenesis: cytolytic and noncytolytic inhibition of viral replication," <i>Adv. Immunol.</i> , 66: 273-311, 1997.
RZ	DDDDDDD	Zajac <i>et al.</i> , "Viral Immune Evasion Due to Persistence of Activated T Cells Without Effector Function", <i>J. Exp. Med.</i> , 188:2205-13, 1998.

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